IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Aurisicchio, et al.	
Serial No. To Be Assigned Filed: February 9, 2006	Art Unit:
For: SYNTHETIC GENE ENCODING RHESUS CARCINOEMBRYONIC ANTIGEN AND US	:

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- 4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

By Salvie 1 (100 Com loge 2/9/00)

RELATED APPLICATION

INFORMATION DISCLOSURE STATEMENT

5. Pursuant to 37 C.F.R. 1.98(d), copies of references listed on the attached form that were submitted to or cited by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

	U. S. SERIAL NUMBER	FILING DATE	MERCK CASE
If th	is is inconvenient, additional copies will be submitted upon reques	t.	
	6. In accordance with 37 C.F.R. 1.97, (check one)		
\checkmark	the attached information is filed within three months of the filing da	te of the captioned case.	
	the attached information is filed more than three months after the to Office Action on the merits.	iling date but prior to the m	ailing of a first
	the attached information is filed before the mailing of a first Office examination under §1.114.	action after the filing of a re	equest for continued
	the attached information is being filed more than three months after Office Action on the merits, but before the mailing date of a Final Action of the properties of the properties of the properties of the fee required under 37 C.F.R. 1.17(p).	Action, Notice of Allowance horization is therefore give	, or an action that
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	each item of information contained in the information disclosure st from a foreign patent office in a counterpart application and this co designated in §1.56(c) more than thirty days prior to the filing of the	ommunication was not rece	ived by any individual
	no item of information contained in this Information Disclosure Sta foreign patent office in a counterpart foreign application, and, to the after making reasonable inquiry, was known to any individual designanths prior to the filing of this Statement.	e knowledge of the person	signing the certification

Respectfully submitted,

By: Alysia A. Finnegan

Attorney / For Applicant(s)

Reg. No. 48,878

MERCK & CO., INC.

Patent Dept., RY60-30

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(732)594-2583

Date: February 9, 2006

Approved for use through JU 2006. OMB 0651- Approved for use through JU 2006. OMB 0651- SUBSTITUTE for PTO/SB/08A (07-05), liaformation Disclosure Statement by Appl Patent and Trademark Office; U.S DEPARTMENT OF COMME

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STATEMENT BY APPLICANT				First Named Inventor	Aurisicchio, et al.
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Sheet	1	of	3	Attorney Docket Number	ITR0058P

	U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
/B.P./		5,274,087		Barnett, et al.	12/28/1993	
		5,571,710		Barnett, et al.	11/05/1996	
\/		5,698,530		Schlom, et al.	12/16/1997	
V		5,843,761		Barnett, et al.	12/01/1998	
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				FOREI	GN PATENT	T DOCUMENTS		
E		C:4-	Foreign Patent Document				Date of Publication of	
Exam: Initial	ls*	Cite No.	Office	Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	
/B	3.P./		PCT	WO 01/24832		Pecher	04/12/2001	
			PCT	WO 01/30382		Aventis Pasteur Limited	05/03/2001	
000000			PCT	WO 02/022080		Merck & Co., Inc.	03/21/2002	
***************************************			PCT	WO 02/38769		Muller	05/16/2002	
2000000			PCT	WO 03/018055		Merck	03/06/2003	
0000000			PCT	WO 03/059379		Pharmexa	07/24/2003	
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W	7		EP	0 346 710		Miles, Inc.	06/03/1989	

Examiner Signature /Bo Peng/ Date Considered 02/29/2008

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Su	Substitute for form 14498/PTO INFORMATION DISCLOSURE			COMPLETE IF, KNOWN			
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6	TO A THE BATTERITY TO S.	7 A D	DIICANT	Filing Date	February 9, 2006		
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Sheet	2	of	3	Attorney Docket Number	ITR0058P		

		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
/B.P./		Andre, et al., "Increased Immune Response Elicited by DNA Vaccination with a Synthetic gp120 Sequence with Optimized Codon Usage", J. of Virol., Feb. 1998, Vol. 72, No. 2, pp. 1497-1503.
***************************************		Beauchemin, et al. "Isolation and Characterization of Full-Length Functional cDNA Clones for Human Carcinoembryonic Antigen", Molecular and Cellular Biology, Vol. 7, No. 9, pp. 3221-3230, Sept. 1987.
200000000000000000000000000000000000000		Benchimol, et al., "Carcinoembryonic Antigen, a Human Tumor Marker, Functions as an Intercellular Adhesion Molecule", Cell, Vol. 57, pp. 327-334, April 21, 1989.
***************************************		Berinstein, et al., "Carcinoembryonic Antigen as a Target for Therapeutic Anticancer Vaccines: a Review", J. of Clinical Oncology, Vol. 20, No. 8, pp. 2197-2207, April 15, 2002.
88000000000		Chester, et al., "Recombinant anti-carcinoembryonic antigen antibodies for targeting cancer", Cancer Chemother. Pharmacol., Vol. 46 (Suppl) S8-S12, 2000.
000000000000000000000000000000000000000		Facciabene, "Baculovirus Vectors Elicit Antigen-Specific Immune Responses in Mice", J. of Virol., Aug. 2004, Vol. 78, No. 16, pp. 8663-8672.
880000000000000000000000000000000000000		Gold, et al., "Demonstration of Tumor-Specific Antigens in Human Colonic Carcinomata by Immunological Tolerance and Absorption Techniques", J. Exp. Med., Vol. 121, pp. 439-462 (1965).
888888888888888888888888888888888888888		Hammarstrom, et al., "Is There a Role for CEA in Innate Immunity in the Colon", Trends in Microbiology, Vol. 9, No. 3, pp. 119-125, 2001.
30000000000000000000000000000000000000		Horig, et al., "Strategies for cancer therapy using carcinoembryonic antigen vaccines", Expert Reviews in Molecular Medicine Electronic Resource, Vol. 2000, pp. 1-24, 2000.
***************************************		Jantscheff, et al., "Search for CEA-Like Molecules In Polymorphonuclear leukocytes of non-human primates using monoclonal antibodies", Archiv. Fur Feschwulsforschung, Vol. 56, No. 2, 1986, pp. 113-6.
000000000000000000000000000000000000000	-	Kantor, et al., "Immunogenicity and Safety of a Recombinant Vaccinia Virus Vaccine Expressing the Carcinoembryonic Antigen Gene in a Nonhuman Primate", Cancer Research, Vol. 52, pp. 6917-6925, 1992.
		Kim, et al., "Codon optimization for high-level expression of human erythropoietin (EPO) in mammalian cells", Gene, Vol. 191, pp. 293-301, 1997.
000000000000000000000000000000000000000		Lathe, "Synthetic Oligonucleotide Probes Deduced from Amino Acid Sequence Data", J. Mol. Biol., Vol. 183, pp. 1-12, 1985.
000000000000000000000000000000000000000		Montgomery, et al., "Heterologous and Homologous Protection Against Influenza A by DNA Vaccination: Optimization of DNA Vectors", DNA and Cell Biology, Vol. 12, No. 9, pp. 777-783, 1993.
V		Paxton, et al., "Sequence Analysis of Carcinoembryonic Antigen:Identification of Glycosylation Sites and Homology With the Immunoglobulin Supergene Family", Proc. Natl. Acad. Sci. USA, Vol. 84, pp. 920-924, February 1987.

Examiner Signature	/Bo Peng/	Date Considered	02/29/2008

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STATEMENT BY APPLICANT				First Named Inventor .	Aurisiçchio, et al.
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		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
/B.P./		Scholl, et al., "Gene Therapy Applications to Cancer Treatment", J. of Biomedicine and Biotechnology", 2003:1, pp. 35-47, 2003.
335353000000000000000000000000000000000		Screaton, et al., "Carcinoembryonic Antigen, A Human Tumor Marker, Cooperates with Myc and Bcl-2 in Cellular Transformation", J. of Cell Biology, Vol. 137, No. 4, pp. 939-952, May 19, 1997.
0000000000000000	-	Shiver, et al., "Cytotoxic T Lymphocyte and Helper T Cell Responses following HIV Polynucleotide Vaccination", Annals. New York Academy of Sciences, Vol. 772, pp. 198-208, 1995.
000000000000000000000000000000000000000		Taheri, et al., "Self Recognition in the Ig Superfamily", J. of Biol. Chem., Vol. 275, No. 35, Sept. 2000, pp. 26935-26943.
000000000000000000000000000000000000000		Thompson, et al., "Molecular cloning of a gene belonging to the carcinoembryonic antigen gene family and discussion of a domain model", Proc. Natl. Acad. Sci. USA, Vol. 84, pp. 2965-2969, May 1987.
000000000000000000000000000000000000000		Wheeler, et al., "Safety and Immunogenicity of a recombunant vaccinia virus vaccine expressing a 70kDa fragment of the human carcinoembryonic antigen in a nonhuman primate", Proceedings of the American Association for Cancer Research", Vol. 36, March 1995, pp. 366.
V		Virji, et al., "CEA and innate immunity", TRENDS in Microbiology, Vol. 9, No. 6, June 2001, pp. 258-259.
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Examiner Signature	/Bo Peng/	Date Considered	02/29/2008

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